



(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) EP 0 983 801 A3

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
14.03.2001 Bulletin 2001/11(51) Int. Cl. 7: B05D 5/00, C09D 4/00,  
B05D 3/06(43) Date of publication A2:  
08.03.2000 Bulletin 2000/10

(21) Application number: 99116834.5

(22) Date of filing: 02.09.1999

(84) Designated Contracting States:  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE  
Designated Extension States:  
AL LT LV MK RO SI(30) Priority: 04.09.1998 JP 25142798  
02.06.1999 JP 15522099  
06.07.1999 JP 19148599(71) Applicant:  
Dukeplanning & Co., Inc.  
Sendai-shi, Miyagi (JP)(72) Inventor: Ueno, Makoto  
Tagajyou-shi, Miyagi (JP)(74) Representative:  
Schwabe - Sandmair - Marx  
Stuntzstrasse 16  
81677 München (DE)

## (54) Method for repairing the coated surface of a vehicle

(57) Method for repairing a coated surface of a vehicle, using an ultraviolet curing resin having excellent quick-drying property, and giving a good finish in a short working time and composition therefore.

The method comprises the following steps:

- a) filling a putty raw material comprising an ultraviolet polymerizing resin and UV curing the putty material
- b) uniformly spray coating on at least the putty coated surface a primer raw material comprising an ultraviolet polymerizing resin and UV curing the primer
- c) applying a top coat on the primer coated surface.

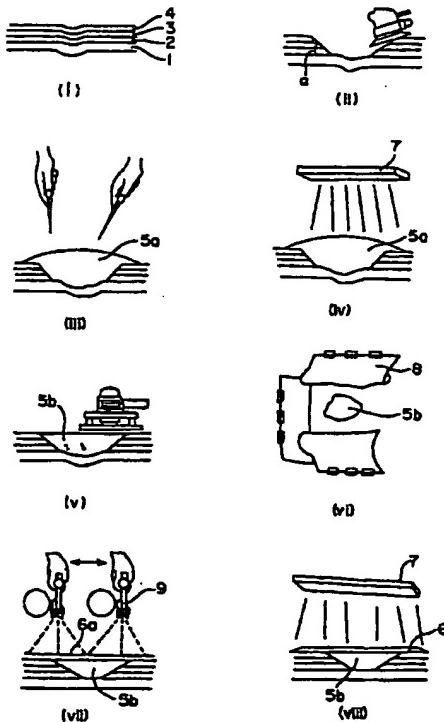


FIG. 1

EP 0 983 801 A3



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 99 11 6834

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.)
X	US 5 789 459 A (YOSHII KOJI ET AL) 4 August 1998 (1998-08-04) * column 2, line 44 - column 3, line 18 * * column 4, line 39-54 * * column 6, line 40-49 *	9,10	B05D5/00 C09D4/00 B05D3/06
Y	EP 0 799 649 A (DAIMLER BENZ AG) 8 October 1997 (1997-10-08) * column 3, line 28 - column 9, line 34 *	1,3-5	
Y	US 4 960 611 A (FUJISAWA ATSUSHI ET AL) 2 October 1990 (1990-10-02) * column 8, line 3-66; figure 6 * * column 9, line 63 - column 10, line 4 *	1,3-5	
A	DE 196 46 956 C (MC MICRO COMPACT CAR AG ;EISENMANN KG MASCHBAU (DE); WORMAG LACK F) 20 May 1998 (1998-05-20) * claims 1,8,9; figures *	1	
A	EP 0 333 934 A (MAEDA MACHINERY SALES) 27 September 1989 (1989-09-27) * column 3, line 26-53; claim 1; figure 1 *	1	<p>TECHNICAL FIELDS SEARCHED (Int.Cl.)</p> <p>B05D C09D</p>
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	16 January 2001	Stembrouck, I	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 11 6834

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

16-01-2001

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5789459	A	04-08-1998	BR 9603961 A CA 2186871 A,C DE 69610669 D EP 0754736 A WO 9623842 A US 5693390 A	07-10-1997 08-08-1996 23-11-2000 22-01-1997 08-08-1996 02-12-1997
EP 0799649	A	08-10-1997	DE 19613915 C ES 2147406 T JP 10057888 A	21-08-1997 01-09-2000 03-03-1998
US 4960611	A	02-10-1990	JP 1835483 C JP 2056278 A JP 5045312 B JP 1315375 A JP 1984123 C JP 6096140 B CA 1312506 A DE 3833225 A GB 2210291 A,B KR 9302047 B	11-04-1994 26-02-1990 08-07-1993 20-12-1989 25-10-1995 30-11-1994 12-01-1993 13-04-1989 07-06-1989 22-03-1993
DE 19646956	C	20-05-1998	EP 0842710 A JP 10156274 A KR 249596 B NO 975201 A US 5997941 A	20-05-1998 16-06-1998 15-03-2000 14-05-1998 07-12-1999
EP 0333934	A	27-09-1989	DE 3878681 D DE 3878681 T ES 2039586 T	01-04-1993 09-06-1993 01-10-1993